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STATE OF ILLINOIS

DEPARTMENT OF REGISTRATION AND EDUCATION



MINERAL PRODUCTION IN ILLINOIS IN 1970

W. L. Busch

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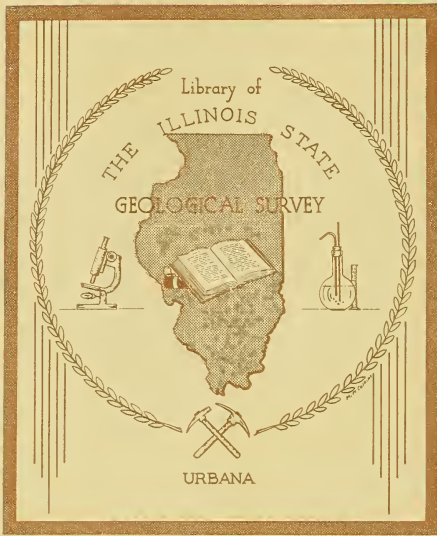
ILLINOIS STATE GEOLOGICAL SURVEY

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ABSTRACT

The value of minerals produced in Illinois in 1970 totaled 716.3 million dollars. This amount was 23.4 million dollars higher than the value of the 1969 record production, and 1970 marked the fifth successive year that a new all-time high in value was attained in mineral production in the state. Increases in the total values of coal, stone, sand, gravel, fluorspar, zinc, and lead from 1969 to 1970 more than offset the declines in total values of crude oil, cement, clay products, and other materials in the same period. The quantity and value of minerals produced in Illinois in 1970, and in other years, are summarized in the tables and maps of this report.

PRODUCTION OF MINERAL PRODUCTS SUMMARIZED IN LISTED TABLES

Material	Table Number	Material	Table Number
Coal	1, 2, 4, 5, 6, 7, 8, 17	Silica sand	1, 2, 5, 13, 17
Crude oil	1, 2, 4, 5, 9, 17	Fluorspar	1, 2, 5, 15, 17
Stone	1, 2, 5, 10, 17	Zinc	1, 2, 5, 16, 17
Cement	1, 2, 5, 17	Lead	1, 2, 5, 16, 17
Clay products	1, 2, 4, 14, 17	Lime*	5, 17
Sand	1, 2, 5, 11, 17	Tripoli*	5, 17
Gravel	1, 2, 5, 12, 17	Natural bonded molding sand*	17

*Production figures not available for publication.

ILLINOIS MINERAL INDUSTRY

The value of minerals produced in Illinois in 1970 set a record annual high of 716.3 million dollars. This amount was 23.4 million dollars, or 3.4 percent, more than the previous all-time high of 692.9 million dollars achieved in 1969. The total value of minerals produced in 1968 was 670.6 million dollars, in 1967 the value was 650.0 million dollars, and in 1966 the value was 644.0 million dollars. Each of these figures represented a record annual output.

In 1970 the value of coal accounted for 44.6 percent of the value of all minerals produced in the state, and the value of crude oil constituted 19.9 percent. The combined value of these fuels amounted to 64.5 percent of the value of all minerals for the year. The quantity and total value of coal produced in 1970 were greater than those of the 1969 production; however, the amount and total value of crude oil produced in 1970 were less than those of the 1969 production.

The second most valuable group of minerals produced in Illinois is the stone products, which include crushed stone, cement, and lime. In 1970 the quantity and value of crushed stone increased from those of the 1969 production. In 1970 the production of portland and masonry cement declined in both quantity and value from the 1969 production of these materials. Lime tonnage and total value had small declines in 1970. As a group, these stone products contributed 17.5 percent of the state's total mineral value in 1970.

Clay products produced in Illinois, amounting to 53.9 million dollars, represented 7.5 percent of the 1970 state total mineral products value. Illinois clay products include face brick and common brick, drain and sewer tile, refractories, lightweight aggregate, and pottery and whiteware. The value of clay products reported for 1970 showed a decline from the value reported for 1969.

Illinois sand and gravel recorded a positive pattern of production in 1970. The tonnage of common sand and gravel produced in 1970 was slightly greater than the 1969 tonnage, and the total value was somewhat higher than the 1969 total value. Silica sand production in 1970 showed a small loss in amount produced, but scored a gain in total value from 1969. The combined values for special sands produced in 1970 were a little lower than the total value reported for special sands for 1969. All sands and gravel produced in Illinois furnished 8.5 percent of the state's entire mineral products value in 1970.

Fluorspar, lead, and zinc, as a group, recorded a sharp gain in total combined value from 1969 to 1970. In 1970 these three minerals accounted for 2.0 percent of the state's total mineral value.

Record of the Illinois Mineral Industry, 1970

Each of the 17 tables published in this report is summarized here under its table number and title.

Table 1 - Summary of Illinois Mineral Production, 1969-1970

Items listed in table 1 for the years 1969 and 1970 are the minerals produced in Illinois, the amounts reported produced by commercial operators, the total annual value for each product, and the state-wide average value per ton or barrel for each product. The values of the mineral products listed under footnote "c" were combined to avoid revealing the output of any individual producer of these commodities.

Table 2 - Comparison of Illinois Mineral Production in 1969 and 1970

All of the mineral products listed in table 1 are also listed in table 2. The figures entered in table 2 indicate by the amounts and values whether the 1970 production and value of each product were greater or less than the 1969 production and value. The balance of increases and declines in value for the mineral products shows a total net gain of 23.4 million dollars, or an increase of 3.4 percent, for 1970 over 1969.

Table 3 - Value of Illinois Mineral Production, 1941-1970

General increases in mineral production throughout the state during the 30 years indicated in table 3, plus gradual price increases for various mineral products of Illinois, have brought about greater total annual values for the state. Each of the five most recent years, 1966-1970, established a new all-time high in value for mineral production in Illinois.

Table 4 - Value of Illinois Mineral Products as Percentage of State Total Mineral Products Value, 1956-1970

The percentage figures given in table 4 show that the value of fuels—coal and crude oil—accounted for almost two-thirds of the state's entire mineral products value in 1970. However, the value of coal accounted for about two-thirds of the total value of the fuels in 1970. During the years 1956-1970 the percentage value of crude oil in the total value of all minerals produced in the state declined steeply.

During recent years the value of building and construction materials (stone, cement, sand, and gravel) has increased its percentage share of the state's total annual value of mineral products. The annual value of clay products shows a gradual percentage decline, and the combined annual values of fluorspar, zinc, and lead, as a percentage of the state total value, usually show only slight change from year to year.

Table 5 - Average Value of Illinois Mineral Products at Plant Site, 1962-1970

The plant site values for Illinois mineral products recorded in table 5 give some indication of recent prices per ton or per barrel for the various products listed.

Table 6 - Illinois Coal Production by Counties, 1970

In 1970 twenty-four Illinois counties reported a total production of 64.9 million tons of bituminous coal, valued at 319.2 million dollars, for an average value of \$4.92 per ton. The state of Illinois ranked fourth in 1970 among coal-producing states of the nation and was exceeded in production only by West Virginia, Kentucky, and Pennsylvania. Illinois mines supplied about 11.0 percent of all bituminous coal produced in the United States in 1970. Of the 64.9 million tons of coal mined in Illinois during 1970, approximately 48.7 percent came from underground mines and about 51.3 percent was produced by strip mines.

The value of coal produced in 1970 amounted to 44.6 percent of the value of all mineral products produced in Illinois for the year. Table 4 indicates the annual percentage that the value of coal contributed to the total value of all minerals

produced in the state each year from 1956 through 1970. Table 5 lists the Illinois average value per ton of coal at the mine for the years 1962-1970, and table 17 shows the position held by each county among all Illinois counties producing coal in 1970. The 24 counties of Illinois that produced coal in 1970 are highlighted on the county map in figure 1, and the intensity of mining activity is indicated by the degree of shading.

Table 7 - Illinois Coal Production by Years, 1951-1970

Table 7 is of special interest because it shows the drop-off of coal production in the post-World War II period of the 1950's and then the increased production of the 1960's. Figures in table 7 also trace the growth of strip mining in Illinois, for a period of 20 years, and the rather level annual production of coal from Illinois underground mines during the years 1954-1968. Table 7 also records the tons of coal produced during the final years of hand mining in Illinois coal fields.

Table 8 - Coal Production by Illinois Counties, 1882-1970

The cumulative coal production by Illinois counties from 1882 through 1970 is shown in table 8. More than 4.1 billion tons of coal were produced from Illinois mines during this period of 89 years. Of the 71 counties that have produced some coal since 1882, 13 counties have produced more than 100 million tons of coal each. As a group, these counties supplied about 3.3 billion tons, or 80.5 percent, of the state's total coal output from 1882 through 1970. Table 8 also records the total number of years that each county produced coal during this period and the most recent year that it was productive during this time.

Table 9 - Estimated Oil Production by Illinois Counties, 1888-1970

Crude oil produced in Illinois during 1970 was estimated at about 43.7 million barrels, which was valued at 142.2 million dollars, for an average price of \$3.25 per barrel. The estimated amount and value of oil produced by Illinois counties in 1970 are shown in table 9 with the percentage of oil that each producing county contributed to the 1970 total production. The indicated total oil production for each county from 1888 through 1970 is also included in table 9. Of the 42 counties producing oil in 1970 (fig. 2), 12 counties produced more than 1 million barrels each, for a total of 36.2 million barrels, or about 82.7 percent, of the state's entire oil production for 1970.

The annual percentage that the value of oil contributed to the state total value of all minerals produced each year from 1956 through 1970 is shown in table 4. Table 5 lists the average price per barrel for Illinois oil from 1962 through 1970. The relative position held by each county producing oil in 1970 is tabulated in table 17.

Table 10 - Illinois Stone Production by Regions, 1970

A total of 52.7 million tons of crushed and broken stone was reported produced by commercial quarry operators in 1970. The value of this processed stone amounted to 83.2 million dollars, for an average of \$1.58 per ton. The tonnage produced in 1970 was supplied by 228 operations located in 59 counties throughout the state.

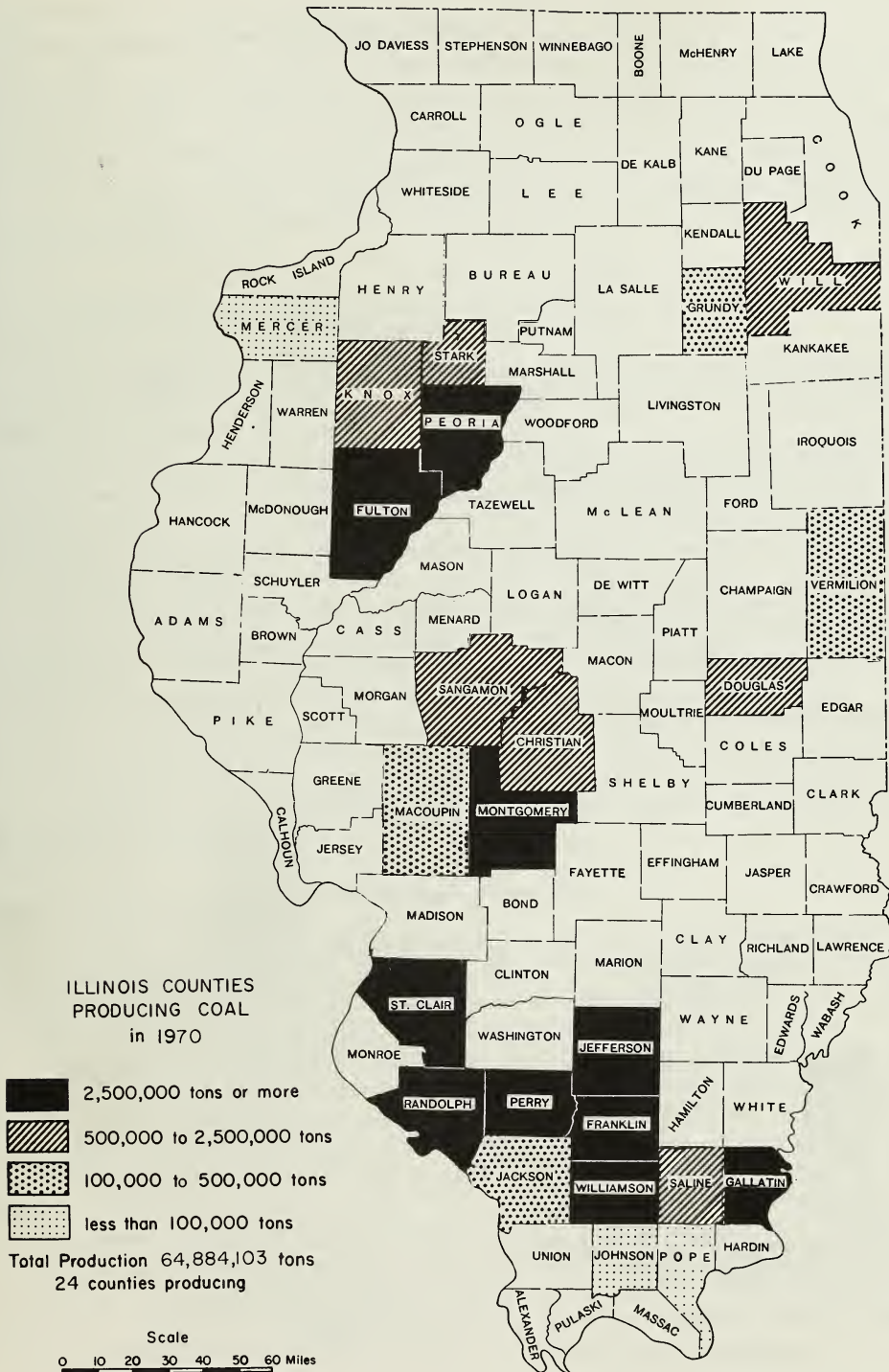


Fig. 1 - Illinois coal production by counties in 1970.

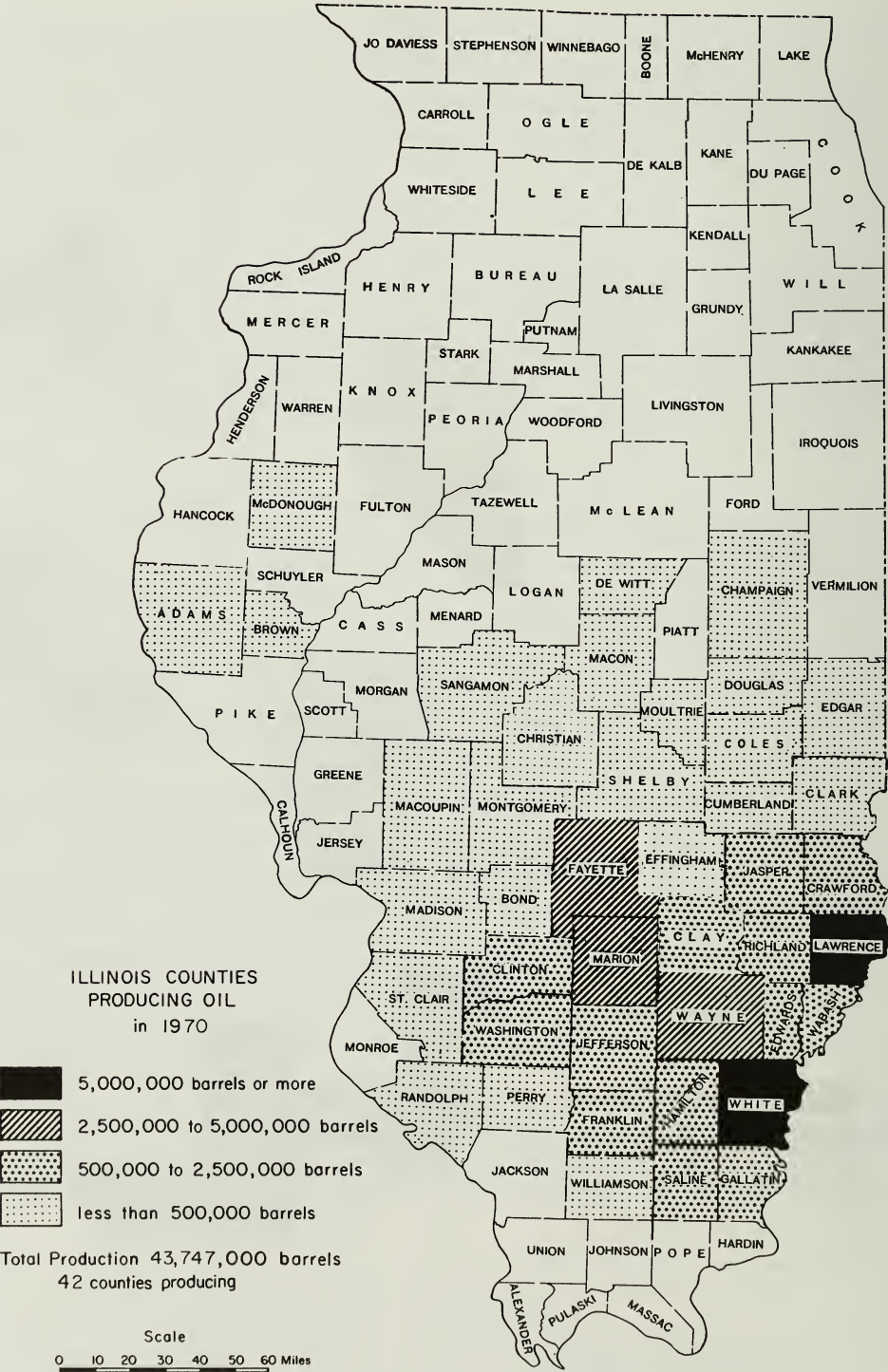


Fig. 2 - Illinois oil production by counties in 1970.

The record of stone production in Illinois by regions (fig. 3) and according to three categories of use—road and building, agriculture, and all other uses—is given in table 10. This table also lists all counties reporting stone production and the average value at the quarry for all stone uses in all regions for 1970. The value of crushed stone, plus the values of the stone products, cement and lime, furnished about 17.5 percent (table 4) of the total Illinois mineral products value for 1970. The yearly average value per ton of stone at the quarry from 1962 through 1970 is given in table 5. The position held by each county producing stone in 1970 is reported in table 17.

Table 11 - Illinois Common Sand Production by Regions, 1970

Table 12 - Illinois Gravel Production by Regions, 1970

In 1970 commercial producers in Illinois reported the production of 39.1 million tons of common sand and gravel. The combined value of these materials amounted to about 43.1 million dollars.

The northeast region of the state (fig. 3) produced the largest amounts of sand and gravel in 1970. (Figure 3 is a county outline map of Illinois showing the regional divisions of the state.) The second most important sand and gravel producing area in the state in 1970 was the central region, and the northwest region was in third place.

With the exception of some counties that border on the Mississippi, Ohio, or Wabash Rivers, the southern part of Illinois has comparatively few sand and gravel operations. Table 11 (common sand) and table 12 (gravel) indicate the amount and value of sand and gravel produced in each region of the state. These tables also list all counties producing sand and gravel and the average value at the pit for all uses of sand or gravel in all regions in 1970. The annual average value of sand and gravel for the years 1962 through 1970 is given in table 5. Table 17 lists in numerical order the relative position held by each county producing sand and gravel in 1970.

Table 13 - Illinois Silica Sand Production, 1969-1970

Silica sand is produced in Illinois primarily in La Salle County and in smaller amounts in Ogle County. The most important use for Illinois silica sand in 1969 and 1970 was for the manufacture of glass, according to table 13. The second most important use for this material was for molding sand purposes. Underground silica sand is also used for grinding, blast, engine, filtration, and oil sand. Ground silica sand is used as an abrasive, as a filler, and as an ingredient in enamel, glass, and pottery; it also has chemical, foundry, and other uses.

A total of 4.3 million tons of silica sand, which was valued at 16.7 million dollars, was produced in Illinois during 1970. Silica sand production in 1969 totaled 4.4 million tons with a value of 15.8 million dollars. The combined value of all sands and gravel produced in Illinois during 1970 amounted to 8.5 percent of the value of all minerals produced in the state (table 4). Table 5 shows the average annual values per ton of common sand, gravel, and silica sand from 1962 through 1970. Table 17 indicates that La Salle and Ogle Counties are the only counties in Illinois producing silica sand.



Fig. 3 - County outline map of Illinois showing regional divisions of the state.

Table 14 - Production of Illinois Clay Products, 1969-1970

The value of clay products reported produced in Illinois during 1970 amounted to 53.9 million dollars; their total value was 58.5 million dollars in 1969. In 1970, 34 clay products plants located in 22 counties throughout Illinois reported production; however, in 1969, 38 plants located in 23 counties reported production. The total value of clay products produced in 1970 was about 7.5 percent of the value of all minerals produced in the state (table 4). The rank of each county in the state reporting the production of clay products for 1970 is recorded in table 17 of this report.

Table 15 - Fluorspar Shipped and Consumed, 1960-1970

Fluorspar figures indicate that in 1970 Illinois producers shipped a total of 148,208 tons, which was valued at 8.6 million dollars (table 1), for an average price of \$58.28 per ton (table 5). Illinois fluorspar shipments during 1970 amounted to 55.5 percent of all fluorspar produced and shipped in the United States (table 15). Of the 1.3 million tons of domestic and foreign fluorspar consumed in the United States in 1970, Illinois fluorspar shipments supplied about 11.1 percent.

Illinois is the nation's leading fluorspar-producing state. This material is mined principally in Hardin County, with small amounts produced in Pope County. Both counties are located in the southern part of the state. Other information regarding Illinois fluorspar may be found in tables 2 and 17.

Table 16 - Illinois Zinc and Lead Production, 1960-1970

Zinc and lead are recovered in Illinois from primary metal mines in Jo Daviess County, located in the northwestern part of the state, and as by-products of fluorspar mining in Hardin and Pope Counties in southern Illinois.

In 1970 Illinois mines produced 16,797 tons of zinc, valued at 5.1 million dollars, and 1,532 tons of lead, valued at \$478,600 (table 16). The combined value of fluorspar shipments and zinc and lead produced in Illinois contributed about 2.0 percent (table 4) of the state's 1970 total mineral products value of 716.3 million dollars. Further information concerning the production of zinc and lead in Illinois may be found in tables 1, 2, 5, and 17.

Table 17 - Summary of Minerals Produced by Illinois Counties, 1970

Table 17 is a convenient reference to the 102 counties of Illinois producing any of 14 mineral products. The table indicates the various mineral products produced in the state, and the numbers show the relative position held by each county among all counties producing a selected mineral product.

TABLE 1 — SUMMARY OF ILLINOIS MINERAL PRODUCTION, 1969-1970^a

Material	Unit	1969 ^b			1970 ^b		
		Quantity	Value at plants		Quantity	Value at plants	
			Total	Average		Total	Average
Coal - bituminous	tons	64,832,584	\$280,076,763	\$ 4.32	64,884,103	\$319,229,787	\$ 4.92
Crude oil	bbls	50,724,000	161,302,320	3.18	43,747,000	142,177,750	3.25
Limestone and dolomite	tons	51,681,297	78,428,150	1.52	52,738,643	83,153,858	1.58
Cement - portland 376 lb	bbls	8,720,263	29,996,460	3.44	7,945,922	25,251,894	3.18
Cement - masonry 280 lb	bbls	602,917	2,136,945	3.54	507,782	1,874,417	3.69
Clay products	—	—	58,466,631	—	—	53,934,711	—
Sand	tons	17,593,298	17,275,700	0.98	17,750,187	18,349,982	1.03
Gravel	tons	21,267,490	23,054,205	1.08	21,378,490	24,731,904	1.16
Silica sand	tons	4,394,950	15,770,919	3.59	4,365,968	16,769,037	3.84
Fluorspar	tons	88,480	4,676,065	52.85	148,208	8,637,000	58.28
Zinc	tons	13,765	4,019,400	292.00	16,797	5,146,200	306.00
Lead	tons	791	235,700	298.00	1,532	478,600	312.00
Other materials ^c	—	—	17,460,742	—	—	16,564,860	—
Total value			\$692,900,000			\$716,300,000	

^aTable based on figures from the U.S. Bureau of Mines, the Illinois State Department of Mines and Minerals, and the Illinois State Geological Survey.

^bSubject to revision.

^cIncludes lime, tripoli, natural gas, natural bonded molding sand, and sandstone.

TABLE 2 — COMPARISON OF ILLINOIS MINERAL PRODUCTION IN 1969 and 1970*

Material	Unit	Production change, 1969-1970		Value change, 1969-1970	
		Increase	Decrease	Percent	Percent
Coal - bituminous	tons	51,519	—	+ 0.1	\$ 39,153,024
Crude oil	bbls	—	6,977,000	- 13.7	19,124,570
Limestone and dolomite	tons	1,057,346	—	+ 2.0	4,725,708
Cement - portland 376 lb	bbls	—	774,341	- 8.9	4,744,566
Cement - masonry 280 lb	bbls	—	95,135	- 15.8	262,528
Clay products	—	—	—	—	4,531,920
Sand	tons	156,889	—	+ 0.9	1,074,282
Gravel	tons	111,000	—	+ 0.5	1,677,699
Silica sand	tons	—	28,982	- 0.7	998,118
Fluorspar	tons	59,728	—	+ 67.5	3,960,935
Zinc	tons	3,032	—	+ 22.0	1,126,800
Lead	tons	741	—	+ 93.7	242,900
Other materials	—	—	—	—	895,882
Total values					\$52,959,466
1970 net increase over 1969 value					\$29,559,466
					\$23,400,000
					+ 3.4

* Table 2 based on figures tabulated in table 1.

TABLE 3 — VALUE OF ILLINOIS MINERAL PRODUCTION, 1941-1970
(thousands of dollars)

Year	Mineral production	Year	Mineral production	Year	Mineral production
1941	\$335,504	1951	\$542,031	1961	\$604,000
1942	341,998	1952	500,820	1962	631,000
1943	337,912	1953	501,926	1963	615,000
1944	342,832	1954	519,242	1964	618,000
1945	344,431	1955	570,653	1965	618,500
1946	379,673	1956	613,364	1966	644,000
1947	458,737	1957	612,755	1967	650,000
1948	567,624	1958	611,625	1968	670,600
1949	487,808	1959	606,300	1969	692,900
1950	539,236	1960	615,800	1970	716,300

TABLE 4 — VALUE OF ILLINOIS MINERAL PRODUCTS AS PERCENTAGE OF STATE
TOTAL MINERAL PRODUCTS VALUE, 1956-1970

Year	Coal	Crude oil	Stone products	Clay products	Sand and gravel	Fluorspar and metals	Total percent
1956	30.0	40.6	12.2	9.6	5.0	2.6	100
1957	30.5	40.1	12.3	9.9	4.8	2.4	100
1958	28.7	40.5	13.7	9.0	5.8	2.3	100
1959	30.4	38.7	13.7	9.6	5.5	2.1	100
1960	29.8	38.0	15.0	9.2	5.5	2.5	100
1961	29.2	39.1	14.5	9.3	5.8	2.1	100
1962	29.6	38.0	15.2	8.9	6.2	2.1	100
1963	31.9	36.3	15.2	8.8	5.9	1.9	100
1964	33.6	33.5	16.4	8.3	6.5	1.7	100
1965	35.2	30.3	17.1	8.5	6.6	2.3	100
1966	37.8	29.0	16.0	8.5	6.7	2.0	100
1967	38.7	28.0	16.9	7.1	6.8	2.5	100
1968	37.2	25.9	18.9	8.0	7.9	2.1	100
1969	40.4	23.3	18.3	8.4	8.3	1.3	100
1970	44.6	19.9	17.5	7.5	8.5	2.0	100

TABLE 5 — AVERAGE VALUE OF ILLINOIS MINERAL PRODUCTS
AT PLANT SITE, 1962-1970

Year	Coal (ton)	Crude oil (bbl)	Crushed stone (ton)	Cement (bbl)	Lime (ton)	Silica sand (ton)
1962	\$3.86	\$3.00	\$1.36	\$3.29	\$16.29	\$3.96
1963	3.80	2.96	1.33	3.28	16.51	3.61
1964	3.79	2.93	1.35	3.30	16.61	3.27
1965	3.74	2.93	1.34	3.26	15.73	3.30
1966	3.85	3.00	1.35	3.11	15.53	3.41
1967	3.88	3.02	1.41	3.32	15.38	3.37
1968	4.01	3.07	1.47	3.47	15.05	3.43
1969	4.32	3.18	1.52	3.45	15.61	3.59
1970	4.92	3.25	1.58	3.21	15.52	3.84

Year	Sand (ton)	Gravel (ton)	Fluorspar (ton)	Zinc (ton)	Lead (ton)	Tripoli (ton)
1962	\$0.86	\$0.93	\$48.12	\$230.00	\$184.00	\$26.13
1963	0.85	0.97	49.58	230.00	216.00	26.90
1964	0.87	1.01	50.62	272.00	262.00	26.88
1965	0.85	0.91	49.40	292.00	312.00	26.59
1966	0.84	0.91	45.42	290.00	302.00	26.56
1967	0.85	0.96	46.90	277.00	280.00	31.03
1968	0.88	1.03	48.50	270.00	264.00	26.37
1969	0.98	1.08	52.85	292.00	298.00	26.41
1970	1.03	1.16	58.28	306.00	312.00	26.48

TABLE 6 — ILLINOIS COAL PRODUCTION BY COUNTIES, 1970^a

County	Number of mines	Tons mined		Total tons	Total value ^b
		Underground	Strip		
Christian	1 ^c	1,965,669	—	1,965,669	\$ 9,671,091
Douglas	1	1,140,162	—	1,140,162	5,609,597
Franklin	4	8,324,034	—	8,324,034	40,954,247
Fulton	5	—	6,080,343	6,080,343	29,915,288
Gallatin	3	2,149,259	749,481	2,898,740	14,261,801
Grundy	1 ^d	—	288,938	288,938	1,421,575
Jackson	2	—	134,486	134,486	661,671
Jefferson	4	6,394,612	48,000	6,442,612	31,697,651
Johnson	2	—	4,016	4,016	19,759
Knox	1	—	1,675,974	1,675,974	8,245,792
Macoupin	1	261,563	—	261,563	1,286,890
Mercer	2	35,613	6,057	41,670	205,016
Montgomery	2 ^c	3,727,899	—	3,727,899	18,341,263
Peoria	3	—	2,698,913	2,698,913	13,278,652
Perry	3	—	8,389,306	8,389,306	41,275,385
Pope	2	—	11,968	11,968	58,883
Randolph	3	827,459	2,773,404	3,600,863	17,716,246
St. Clair	6	825,334	5,348,524	6,173,858	30,375,381
Saline	6	1,519,116	901,039	2,420,155	11,907,163
Sangamon	c	1,938,438	—	1,938,438	9,537,115
Stark	1	—	727,568	727,568	3,579,635
Vermilion	3	65,098	184,873	249,971	1,229,857
Will	d	—	687,081	687,081	3,380,439
Williamson	8	2,441,314	2,558,562	4,999,876	24,599,390
Total	64	31,615,570	33,268,533	64,884,103	\$319,229,787

^a Production figures, Illinois State Department of Mines and Minerals.^b Average mine value for Illinois coal estimated at \$4.92 per ton, 1970.^c One mine operated in Christian, Montgomery, and Sangamon Counties.^d One mine operated in Grundy and Will Counties.

TABLE 7 — ILLINOIS COAL PRODUCTION BY YEARS, 1951-1970*

Year	Tons of coal produced by				
	All mines Total	Strip mines Total	Underground mines		
			Total	Mined by machine	Mined by hand
1970	64,884,103	33,268,533	31,615,570	31,615,570	—
1969	64,832,584	34,659,957	30,172,627	30,172,627	—
1968	62,143,076	36,058,646	26,084,430	26,084,430	—
1967	64,814,771	37,164,771	27,650,000	27,650,000	—
1966	63,212,697	36,080,526	27,132,171	27,132,171	—
1965	58,232,480	32,661,038	25,571,442	25,571,442	—
1964	54,834,488	29,956,137	24,878,351	24,878,351	—
1963	51,642,431	27,216,422	24,426,009	24,426,009	—
1962	48,353,913	24,603,873	23,750,040	23,750,040	—
1961	45,132,526	22,926,945	22,205,581	22,203,257	2,324
1960	45,820,632	22,707,527	23,113,105	23,099,304	13,801
1959	45,374,626	22,006,206	23,368,420	23,355,034	13,386
1958	43,777,130	20,608,567	23,168,563	23,147,089	21,474
1957	46,682,889	19,883,979	26,798,910	26,767,434	31,476
1956	47,804,040	19,658,854	28,145,186	28,100,001	45,185
1955	45,711,555	18,715,621	26,995,934	26,935,614	60,320
1954	41,775,752	16,425,532	25,350,220	25,219,084	131,136
1953	45,966,114	16,680,336	29,285,778	29,132,106	153,672
1952	45,752,588	16,715,635	29,036,953	28,788,980	247,973
1951	54,869,679	18,309,970	36,559,709	36,081,258	478,451

* Source: Illinois State Department of Mines and Minerals.

TABLE 8 — COAL PRODUCTION BY ILLINOIS COUNTIES, 1882-1970*

County	Total production (tons)	Total years active	Last year active	County	Total production (tons)	Total years active	Last year active
Adams	341,924	26	1969	Marshall	12,516,141	70	1951
Bond	7,355,569	57	1942	Menard	13,462,005	84	1965
Brown	65,347	40	1963	Mercer	15,411,386	83	1970
Bureau	53,823,055	80	1964	Monroe	8,284	13	1941
Calhoun	96,247	27	1912	Montgomery	120,553,562	89	1970
Cass	212,477	53	1941	Morgan	190,787	64	1951
Christian	289,280,465	86	1970	Moultrie	2,032,236	16	1924
Clark	4,482	2	1955	Peoria	83,694,612	89	1970
Clay	801	1	1963	Perry	244,397,997	89	1970
Clinton	38,656,325	79	1960	Pike	5,081	8	1942
Coles	198,932	6	1888	Pope	13,530	12	1970
Crawford	45,400	16	1961	Putnam	10,071,893	29	1938
Douglas	10,723,728	25	1970	Randolph	108,969,660	89	1970
Edgar	915,698	41	1952	Richland	154	1	1890
Effingham	796	1	1890	Rock Island	3,846,169	67	1948
Franklin	559,805,990	72	1970	St. Clair	308,112,147	89	1970
Fulton	274,356,528	89	1970	Saline	233,578,699	89	1970
Gallatin	13,146,540	86	1970	Sangamon	235,388,045	84	1970
Greene	693,191	84	1967	Schuyler	7,747,691	84	1966
Grundy	43,809,559	87	1970	Scott	612,476	61	1942
Hamilton	22,097	16	1905	Shelby	4,119,763	67	1950
Hancock	771,281	72	1958	Stark	7,100,154	80	1970
Hardin	40	1	1890	Tazewell	17,633,802	75	1956
Henry	22,910,053	84	1965	Vermilion	164,902,606	89	1970
Jackson	97,282,128	89	1970	Wabash	198,226	36	1964
Jasper	23,739	11	1939	Warren	685,466	73	1954
Jefferson	61,585,607	67	1970	Washington	18,165,386	88	1969
Jersey	120,350	59	1951	White	1,676,741	36	1940
Johnson	279,261	55	1970	Will	43,171,775	89	1970
Kankakee	8,858,008	44	1969	Williamson	396,684,622	89	1970
Knox	55,069,151	89	1970	Woodford	7,810,160	70	1951
La Salle	65,547,638	79	1960	Total (1882-1970)		4,182,377,733	
Livingston	10,111,437	80	1961	Estimated production (1833-1881)		73,386,123	
Logan	14,533,376	84	1968	Total production (1833-1970)		4,255,763,856	
Macon	11,000,468	65	1947				
Macoupin	266,246,253	88	1970				
McDonough	2,634,903	69	1951				
McLean	5,544,139	47	1928				
Madison	164,295,772	83	1964				
Marion	39,247,722	82	1963				

* Production figures, Illinois State Department of Mines and Minerals.

TABLE 9 — ESTIMATED OIL PRODUCTION BY ILLINOIS COUNTIES, 1888-1970^a

County	Total production ^b 1888-1970	1970 production		1970 value ^c
		Thousands of barrels	Percent of state total	
Adams	172	3	0.01	\$ 9,750
Bond	7,022	68	0.16	221,000
Brown	218	1	—	3,250
Champaign	7	1	—	3,250
Christian	23,459	452	1.03	1,469,000
Clark-Cumberland	87,908	499	1.14	1,621,750
Clay	123,698	2,168	4.96	7,046,000
Clinton	80,519	743	1.70	2,414,750
Coles	21,756	342	0.78	1,111,500
Crawford	220,296	2,010	4.59	6,532,500
De Witt	1,955	192	0.44	624,000
Douglas	3,468	50	0.11	162,500
Edgar	3,051	95	0.22	308,750
Edwards	43,132	732	1.67	2,379,000
Effingham	14,364	452	1.03	1,469,000
Fayette	369,936	4,780	10.93	15,535,000
Franklin	67,403	956	2.19	3,107,000
Gallatin	46,647	833	1.90	2,707,250
Hamilton	126,398	1,639	3.75	5,326,750
Hancock ^d -McDonough	5,264	39	0.09	126,750
Jasper	46,890	1,058	2.42	3,438,500
Jefferson	77,010	1,133	2.59	3,682,250
Lawrence	366,783	5,230	11.95	16,997,500
Macon	873	9	0.02	29,250
Macoupin	235	3	0.01	9,750
Madison	16,642	121	0.28	393,250
Marion	387,402	3,584	8.19	11,648,000
Monroe	2	—	—	—
Montgomery	115	1	—	3,250
Moultrie	85	4	0.01	13,000
Perry	688	19	0.04	61,750
Randolph	3,932	118	0.27	383,500
Richland	94,266	1,716	3.92	5,577,000
St. Clair	3,108	115	0.26	373,750
Saline	19,355	556	1.27	1,807,000
Sangamon	2,028	201	0.46	653,250
Schuyler	1	—	—	—
Shelby	1,446	43	0.10	139,750
Wabash	100,102	1,770	4.05	5,752,500
Washington	26,390	760	1.74	2,470,000
Wayne	219,917	4,861	11.11	15,798,250
White	256,651	6,232	14.25	20,254,000
Williamson	995	158	0.36	513,500
Total	2,871,589	43,747	100.00	\$142,177,750

^aSubject to revision.^bIn thousands of barrels.^cAverage price estimated at \$3.25 per barrel.^dNo oil production reported for Hancock County in 1970.

TABLE 10 — ILLINOIS STONE PRODUCTION BY REGIONS, 1970^{a,b}

Producing counties and operations ^c		Stone use	Tons	Value	Average per ton
NORTHWEST					
Carroll	Ogle	Road and			
Henry	Rock Island	building	4,299,983	\$5,565,947	\$1.29
Jo Daviess	Stephenson	Agstone	479,309	760,922	1.59
Lee	Whiteside	All other	98,273	117,736	1.20
Mercer	Winnebago				
Operations — 97		Total	4,877,565	\$6,444,605	\$1.32
WEST					
Adams	Knox	Road and			
Brown	McDonough	building	2,062,845	\$3,063,884	\$1.49
Hancock	Schuyler	Agstone	419,597	683,216	1.63
Henderson	Warren	All other	311,679	1,005,406	3.23
Operations — 25		Total	2,794,121	\$4,752,506	\$1.70
WEST SOUTHWEST					
Calhoun	Madison	Road and			
Christian	Montgomery	building	2,950,745	\$5,125,194	\$1.70
Greene	Pike	Agstone	514,880	732,944	1.42
Jersey	Scott	All other	296,047	499,060	1.69
Macoupin					
Operations — 27		Total	3,761,672	\$6,357,198	\$1.69
SOUTHWEST					
Clinton	Randolph	Road and			
Jackson	St. Clair	building	4,943,380	\$8,103,974	\$1.64
Johnson	Union	Agstone	687,152	1,026,418	1.49
Monroe	Washington	All other	2,680,892	4,668,892	1.74
Pulaski					
Operations — 21		Total	8,310,927	\$13,799,284	\$1.66
NORTHEAST					
Boone	Kendall	Road and			
Cook	La Salle	building	18,970,117	\$29,129,837	\$1.54
De Kalb	McHenry	Agstone	346,046	494,777	1.43
Du Page	Will	All other	2,217,439	3,920,310	1.77
Kane					
Operations — 23		Total	21,533,602	\$33,544,924	\$1.56
EAST					
Kankakee		Road and			
Livingston		building	5,376,613	\$8,245,053	\$1.53
Vermilion		Agstone	815,443	1,223,449	1.50
		All other	222,872	469,791	2.11
Operations — 12		Total	6,414,928	\$9,938,293	\$1.55
CENTRAL					
Logan		Road and			
Menard		building	1,184,886	\$2,024,125	\$1.71
Peoria		Agstone	191,008	362,986	1.90
		All other	—	—	—
Operations — 5		Total	1,375,894	\$2,387,111	\$1.73
EAST SOUTHEAST					
Clark	Fayette	Road and			
Clay	Marion	building	1,513,866	\$2,653,348	\$1.75
Coles	Shelby	Agstone	392,593	754,207	1.92
		All other	—	—	—
Operations — 10		Total	1,906,459	\$3,407,555	\$1.79
SOUTHEAST					
Hardin		Road and			
Messac		building	1,085,553	\$1,645,772	\$1.52
		Agstone	153,892	232,053	1.51
		All other	524,030	644,557	1.23
Operations — 8		Total	1,763,475	\$2,522,382	\$1.43
STATE TOTALS					
Counties — 59		Road and			
Operations — 228		building	42,387,988	\$65,557,134	\$1.55
		Agstone	3,999,920	6,270,972	1.57
		All other	6,350,735	11,325,752	1.78
		Total	52,738,643	\$83,153,858	\$1.58

^aBased on U.S. Bureau of Mines figures. All values at the quarry.^bDimension stone and stone used for cement and lime not included.^cSummary of commercial stone production. Figure 3 shows regions and counties.

TABLE 11 — ILLINOIS COMMON SAND PRODUCTION BY REGIONS, 1970^a

Producing counties and operations ^b		Sand use	Tons	Value	Average per ton
NORTHWEST					
Bureau	Ogle				
Carroll	Rock Island	Paving	939,297	\$ 717,217	\$0.76
Henry	Stephenson	Building	961,077	963,611	1.00
Jo Daviess	Whiteside	All other	438,754	278,876	0.64
Lee	Winnebago				
Operations — 31		Total	2,339,128	\$1,959,704	\$0.84
WEST					
Adams	Schuyler	Paving	225,801	\$ 190,202	\$0.84
Brown		Building	55,182	71,009	1.29
Fulton		All other	74,179	66,303	0.89
Operations — 9		Total	355,162	\$ 327,514	\$0.92
WEST SOUTHWEST					
Bond	Pike	Paving	434,949	\$ 508,791	\$1.17
Madison	Sangamon	Building	828,576	919,496	1.11
Morgan	Scott	All other	205,997	189,276	0.92
Operations — 14		Total	1,469,522	\$1,617,563	\$1.10
SOUTHWEST					
Alexander	Randolph	Paving	431,800	\$ 443,250	\$1.03
Clinton	St. Clair	Building	165,568	159,926	0.97
Jackson	Union	All other	112,481	105,466	0.94
Pulaski		Total	709,849	\$ 708,642	\$1.00
Operations — 8					
CENTRAL					
De Witt	Mason	Paving	1,356,560	\$1,470,782	\$1.08
Logan	Peoria	Building	545,527	665,296	1.22
McLean	Stark	All other	379,628	343,866	0.91
Macon	Tazewell				
Marshall	Woodford				
Operations — 35		Total	2,281,715	\$2,479,944	\$1.09
NORTHEAST					
Boone	Kane	Paving	4,320,913	\$4,730,786	\$1.09
Cook	Lake	Building	3,123,174	3,596,757	1.15
De Kalb	La Salle	All other	951,551	802,712	0.84
Du Page	McHenry				
Grundy	Will				
Operations — 51		Total	8,395,638	\$9,130,255	\$1.09
EAST					
Champaign	Kankakee	Paving	498,019	\$ 496,727	\$1.00
Ford	Livingston	Building	174,274	174,240	1.00
Iroquois	Vermilion	All other	139,763	73,276	0.52
Operations — 15		Total	812,056	\$ 744,243	\$0.92
EAST SOUTHEAST					
Clark	Effingham	Paving	392,224	\$ 481,927	\$1.23
Coles	Fayette	Building	155,936	141,151	0.91
Crawford	Lawrence	All other	149,199	119,214	0.80
Cumberland	Shelby				
Operations — 16		Total	697,359	\$ 702,292	\$1.06
SOUTHEAST					
Edwards	Wabash	Paving	369,250	\$ 304,900	\$0.83
Gallatin	White	Building	272,015	301,805	1.11
Massac		All other	48,493	33,120	0.68
Operations — 10		Total	689,758	\$ 639,825	\$0.93
STATE TOTALS					
Counties — 66		Paving	8,968,813	\$9,344,582	\$1.04
Operations — 189		Building	6,281,329	6,993,291	1.11
		All other	2,500,045	2,012,109	0.80
		Total	17,750,187	\$18,349,982	\$1.03

^aBased on U.S. Bureau of Mines figures. All values at the pit.^bSummary of commercial sand production. Figure 3 shows regions and counties.

TABLE 12 — ILLINOIS GRAVEL PRODUCTION BY REGIONS, 1970^a

Producing counties and operations ^b		Gravel use	Tons	Value	Average per ton
NORTHWEST					
Bureau	Putnam				
Carroll	Rock Island	Paving	741,360	\$ 786,256	\$1.06
Jo Daviess	Stephenson	Building	853,295	1,019,840	1.20
Lee	Whiteside	All other	56,706	49,041	0.86
Ogle	Winnebago				
Operations — 37		Total	1,651,361	\$1,855,137	\$1.12
WEST					
Adams	Schuyler	Paving	274,035	\$ 427,621	\$1.56
Brown		Building	44,999	79,880	1.78
Fulton		All other	—	—	—
Operations — 8		Total	319,034	\$ 507,501	\$1.59
WEST SOUTHWEST					
Bond	Scott	Paving	136,750	\$ 166,860	\$1.22
Pike		Building	182,386	348,278	1.91
Sangamon		All other	21,607	103,973	4.81
Operations — 10		Total	340,743	\$ 619,111	\$1.82
SOUTHWEST					
Alexander	Union	Paving	26,540	\$ 19,334	\$0.73
Clinton		Building	—	—	—
Pulaski		All other	—	—	—
Operations — 5		Total	26,540	\$ 19,334	\$0.73
CENTRAL					
De Witt	Mason				
Logan	Peoria	Paving	2,197,367	\$3,217,264	\$1.46
McLean	Stark	Building	485,600	769,202	1.58
Macon	Tazewell	All other	214,105	238,207	1.11
Marshall	Woodford				
Operations — 53		Total	2,897,072	\$4,224,673	\$1.46
NORTHEAST					
Boone	Kendall				
Cook	Lake	Paving	7,212,192	\$8,681,541	\$1.20
De Kalb	La Salle	Building	5,750,959	5,789,752	1.01
Du Page	McHenry	All other	1,006,992	718,996	0.71
Grundy	Will				
Kane		Total	13,970,143	\$15,190,289	\$1.09
Operations — 72					
EAST					
Champaign	Kankakee	Paving	473,214	\$ 634,261	\$1.34
Ford	Livingston	Building	44,175	64,562	1.46
Iroquois	Vermilion	All other	52,454	21,238	0.40
Operations — 19		Total	569,843	\$ 720,061	\$1.26
EAST SOUTHEAST					
Clark	Fayette	Paving	627,782	\$ 651,500	\$1.04
Coles	Lawrence	Building	186,476	253,094	1.36
Crawford	Moultrie	All other	140,341	102,770	0.73
Cumberland	Shelby				
Operations — 15		Total	954,599	\$1,007,364	\$1.06
SOUTHEAST					
Edwards	Wabash	Paving	618,271	\$ 543,958	\$0.88
Gallatin	White	Building	30,884	44,476	1.44
Massac		All other	—	—	—
Operations — 9		Total	649,155	\$ 588,434	\$0.91
STATE TOTALS					
Counties — 62		Paving	12,307,511	\$15,128,595	\$1.23
Operations — 228		Building	7,578,774	8,369,084	1.10
		All other	1,492,205	1,234,225	0.83
		Total	21,378,490	\$24,731,904	\$1.16

^aBased on U.S. Bureau of Mines figures. All values at the pit.^bSummary of commercial gravel production. Figure 3 shows regions and counties.

TABLE 13 — ILLINOIS SILICA SAND PRODUCTION, 1969-1970^a

Silica sand use	1969		1970	
	Tons	Value	Tons	Value
Glass sand	2,136,890	\$ 5,101,987	2,140,476	\$ 5,429,124
Molding sand	1,149,621	4,282,548	1,100,298	4,280,945
Other uses ^b	795,228	3,550,171	812,535	4,173,065
Ground silica sand ^c	<u>313,211</u>	<u>2,836,213</u>	<u>312,659</u>	<u>2,885,903</u>
Total silica sand	4,394,950	\$15,770,919	4,365,968	\$16,769,037

^aBased on U.S. Bureau of Mines figures.^bBlast, engine, filtration, grinding, oil, other.^cFor abrasives, ceramics, foundry, filler, chemical.

TABLE 14 — PRODUCTION OF ILLINOIS CLAY PRODUCTS, 1969-1970

Clay products reported	1969		1970	
	Amount	Value	Amount	Value
Face brick (number)	143,958,741	\$ 6,938,584	95,277,375	\$ 4,782,544
Common brick (number)	123,298,257	3,671,564	96,522,679	3,996,687
Drain and sewer tile (tons)	159,240	6,793,255	138,963	6,573,053
Lightweight aggregate (tons)	539,750	3,203,803	530,998	3,266,125
Other clay products	—	823,446	—	—
Clay and silica refractories	—	12,511,043	—	11,408,848
Pottery and whiteware	—	<u>24,524,936</u>	—	<u>23,907,454</u>
Total		\$58,466,631		\$53,934,711

TABLE 15 — FLUORSPAR SHIPPED AND CONSUMED, 1960-1970^a

Year	Fluorspar Shipments			Fluorspar consumed in United States ^b	Illinois shipments as percent of U.S. consumption
	United States	Illinois	Illinois as percent of U.S.		
1960	229,782	134,529	58.5	643,759	20.9
1961	197,354	116,908	59.2	687,940	17.0
1962	206,026	132,830	64.5	652,888	20.3
1963	199,948	132,060	66.1	736,350	17.9
1964	217,137	127,454	58.7	831,561	15.3
1965	240,932	159,140	66.1	930,127	17.1
1966	253,068	176,175	69.6	1,065,124	16.5
1967	295,643	210,207	71.1	1,091,158	19.3
1968	252,411	188,325	74.6	1,243,414	15.1
1969	182,567	88,480	48.5	1,356,624	6.5
1970	267,191	148,208	55.5	1,333,894	11.1

^aFluorspar figures, in tons, U.S. Bureau of Mines.^bFluorspar consumed includes domestic and foreign material.TABLE 16 — ILLINOIS ZINC AND LEAD PRODUCTION, 1960-1970^a

Year ^b	Zinc			Lead		
	Tons	Value	Average per ton	Tons	Value	Average per ton
1960	29,550	\$7,623,900	\$258.00	3,000	\$702,000	\$234.00
1961	26,795	6,162,850	230.00	3,430	706,580	206.00
1962	27,413	6,304,990	230.00	3,610	664,240	184.00
1963	20,337	4,677,510	230.00	2,901	626,616	216.00
1964	13,800	3,753,600	272.00	2,180	571,160	262.00
1965	18,314	5,347,688	292.00	3,005	937,560	312.00
1966	15,192	4,405,680	290.00	2,285	690,756	302.00
1967	20,416	5,552,374	277.00	2,384	667,520	280.00
1968	18,182	4,909,140	270.00	1,467	387,641	264.00
1969	13,765	4,019,400	292.00	791	235,700	298.00
1970	16,797	5,146,200	306.00	1,532	478,600	312.00

^aBased on U.S. Bureau of Mines figures.^bMine production of recoverable metal.

TABLE 17 — SUMMARY OF MINERALS PRODUCED BY ILLINOIS COUNTIES, 1970

This table is a convenient reference to the counties of Illinois producing any of 14 mineral products. The numbers show the position held by each county among all counties producing a selected mineral product.

County	Cement	Clay products	Coal	Crude oil	Fluorspar	Lead	Lime	Natural bonded molding sand	Common sand	Common gravel	Silica sand	Stone	Tripoli	Zinc
Adams	-	-	-	38	-	-	2	-	52	55	-	16	-	-
Alexander	-	-	-	-	-	-	-	-	46	54	-	-	1	-
Bond	-	-	-	31	-	-	-	-	25	29	-	-	-	-
Boone	-	-	-	-	-	-	-	-	47	34	-	35	-	-
Brown	-	21	-	41	-	-	-	-	56	60	-	57	-	-
Bureau	-	-	-	-	-	-	-	-	21	5	-	-	-	-
Calhoun	-	-	-	-	-	-	-	-	-	-	-	56	-	-
Carroll	-	-	-	-	-	-	-	-	59	45	-	30	-	-
Cass	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Champaign	-	-	-	42	-	-	-	-	12	23	-	-	-	-
Christian	-	-	12	19	-	-	-	-	-	-	-	36	-	-
Clark	-	-	-	21	-	-	-	-	51	26	-	17	-	-
Clay	-	-	-	6	-	-	-	-	-	-	-	48	-	-
Clinton	-	-	-	16	-	-	-	-	45	58	-	52	-	-
Coles	-	-	-	22	-	-	-	-	23	28	-	26	-	-
Cook	-	1	-	-	-	-	1	-	11	8	-	1	-	-
Crawford	-	5	-	7	-	-	-	-	50	15	-	-	-	-
Cumberland	-	-	-	26	-	-	-	-	32	38	-	-	-	-
De Kalb	-	-	-	-	-	-	-	-	26	24	-	34	-	-
De Witt	-	-	-	24	-	-	-	-	39	22	-	-	-	-
Douglas	-	-	15	32	-	-	-	-	-	-	-	-	-	-
Du Page	-	7	-	-	-	-	-	-	18	4	-	15	-	-
Edgar	-	-	-	30	-	-	-	-	-	-	-	-	-	-
Edwards	-	-	-	17	-	-	-	-	62	41	-	-	-	-
Effingham	-	-	-	20	-	-	-	-	58	-	-	-	-	-
Fayette	-	19	-	4	-	-	-	3	48	42	-	33	-	-
Ford	-	-	-	-	-	-	-	-	28	33	-	-	-	-
Franklin	-	-	2	13	-	-	-	-	-	-	-	-	-	-
Fulton	-	-	5	-	-	-	-	-	19	16	-	-	-	-
Gallatin	-	-	9	14	-	-	-	-	22	51	-	-	-	-
Greene	-	22	-	-	-	-	-	-	-	-	-	37	-	-
Grundy	-	8	18	-	-	-	-	-	2	57	-	-	-	-
Hamilton	-	-	-	10	-	-	-	-	-	-	-	-	-	-
Hancock	-	-	-	-	-	-	-	-	-	-	-	28	-	-
Hardin	-	-	-	-	1	1	-	-	-	-	-	6	-	1

TABLE 17 — Continued

County	Cement	Clay products	Coal	Crude oil	Fluorspar	Lead	Lime	Natural bonded molding sand	Common sand	Common gravel	Silica sand	Stone	Tripoli	Zinc
Henderson	-	-	-	-	-	-	-	-	-	-	-	40	-	-
Henry	-	-	-	-	-	-	-	1	54	-	-	41	-	-
Iroquois	-	-	-	-	-	-	-	-	49	61	-	-	-	-
Jackson	-	-	21	-	-	-	-	-	36	-	-	31	-	-
Jasper	-	-	-	12	-	-	-	-	-	-	-	-	-	-
Jefferson	-	-	3	11	-	-	-	-	-	-	-	-	-	-
Jersey	-	-	-	-	-	-	-	-	-	-	-	49	-	-
Jo Daviess	-	-	-	-	-	2	-	-	30	53	-	27	-	2
Johnson	-	-	24	-	-	-	-	-	-	-	-	9	-	-
Kane	-	6	-	-	-	-	-	-	4	1	-	13	-	-
Kankakee	-	17	-	-	-	-	-	-	53	40	-	5	-	-
Kendall	-	-	-	-	-	-	-	-	-	19	-	39	-	-
Knox	-	4	14	-	-	-	-	-	-	-	-	38	-	-
Lake	-	12	-	-	-	-	-	-	7	6	-	-	-	-
La Salle	1	2	-	-	-	-	-	-	14	14	1	46	-	-
Lawrence	-	-	-	2	-	-	-	-	38	20	-	-	-	-
Lee	2	-	-	-	-	-	-	-	34	35	-	18	-	-
Livingston	-	15	-	-	-	-	-	-	64	47	-	4	-	-
Logan	-	-	-	-	-	-	-	-	27	31	-	45	-	-
McDonough	-	3	-	34	-	-	-	-	-	-	-	32	-	-
McHenry	-	-	-	-	-	-	-	-	1	2	-	59	-	-
McLean	-	-	-	-	-	-	-	-	15	7	-	-	-	-
Macon	-	-	-	36	-	-	-	-	16	21	-	-	-	-
Macoupin	-	-	19	39	-	-	-	-	-	-	-	47	-	-
Madison	-	11	-	27	-	-	-	-	9	-	-	14	-	-
Marion	-	-	-	5	-	-	-	-	-	-	-	50	-	-
Marshall	-	-	-	-	-	-	-	-	35	17	-	-	-	-
Mason	-	-	-	-	-	-	-	-	42	59	-	-	-	-
Massac	3	-	-	-	-	-	-	-	43	46	-	54	-	-
Menard	-	-	-	-	-	-	-	-	-	-	-	20	-	-
Mercer	-	-	22	-	-	-	-	-	-	-	-	53	-	-
Monroe	-	-	-	-	-	-	-	-	-	-	-	42	-	-
Montgomery	-	-	7	40	-	-	-	-	-	-	-	11	-	-
Morgan	-	-	-	-	-	-	-	-	63	-	-	-	-	-
Moultrie	-	-	-	37	-	-	-	-	-	49	-	-	-	-
Ogle	-	-	-	-	-	-	-	-	29	32	2	24	-	-
Peoria	-	-	10	-	-	-	-	-	13	10	-	22	-	-
Perry	-	-	1	35	-	-	-	-	-	-	-	-	-	-
Piatt	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pike	-	-	-	-	-	-	-	-	61	30	-	23	-	-

Continued on page 22

TABLE 17 — Continued

County	Cement	Clay products	Coal	Crude oil	Fluorspar	Lead	Lime	Natural bonded molding sand	Common sand	Common gravel	Silica sand	Stone	Tripoli	Zinc
Pope	-	-	23	-	2	3	-	-	-	-	-	-	-	3
Pulaski	-	13	-	-	-	-	-	-	55	56	-	44	-	-
Putnam	-	-	-	-	-	-	-	-	-	48	-	-	-	-
Randolph	-	-	8	28	-	-	-	-	24	-	-	7	-	-
Richland	-	-	-	9	-	-	-	-	-	-	-	-	-	-
Rock Island	-	-	-	-	-	-	-	2	5	27	-	10	-	-
St. Clair	-	20	4	29	-	-	-	-	20	-	-	3	-	-
Saline	-	-	11	18	-	-	-	-	-	-	-	-	-	-
Sangamon	-	18	13	23	-	-	-	-	8	25	-	-	-	-
Schuyler	-	-	-	-	-	-	-	-	57	43	-	58	-	-
Scott	-	16	-	-	-	-	-	-	66	62	-	51	-	-
Shelby	-	-	-	33	-	-	-	-	33	36	-	55	-	-
Stark	-	-	16	-	-	-	-	-	65	52	-	-	-	-
Stephenson	-	-	-	-	-	-	-	-	44	44	-	21	-	-
Tazewell	-	-	-	-	-	-	-	-	10	9	-	-	-	-
Union	-	-	-	-	-	-	-	-	60	50	-	12	-	-
Vermilion	-	14	20	-	-	-	-	-	37	18	-	8	-	-
Wabash	-	-	-	8	-	-	-	-	40	39	-	-	-	-
Warren	-	9	-	-	-	-	-	-	-	-	-	19	-	-
Washington	-	-	-	15	-	-	-	-	-	-	-	25	-	-
Wayne	-	-	-	3	-	-	-	-	-	-	-	-	-	-
White	-	-	-	1	-	-	-	-	17	11	-	-	-	-
Whiteside	-	-	-	-	-	-	-	-	31	37	-	43	-	-
Will	-	10	17	-	-	-	-	-	3	3	-	2	-	-
Williamson	-	-	6	25	-	-	-	-	-	-	-	-	-	-
Winnebago	-	-	-	-	-	-	-	-	6	12	-	29	-	-
Woodford	-	-	-	-	-	-	-	-	41	13	-	-	-	-

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